



COLORADO
Department of
Transportation

I-70 East Final Environmental Impact Statement and Section 4(f) Evaluation

JANUARY 2016
Attachment A—Alternative Maps



I-70EAST.COM

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ATTACHMENT A—ALTERNATIVE MAPS

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No-Action Alternative

Because of the deteriorating condition of the existing I-70 viaduct between Brighton Boulevard and Colorado Boulevard, the No-Action Alternative includes replacement of the viaduct. A North or South Expansion Option is required for this alternative to allow the highway to remain operational during construction of the new viaduct.

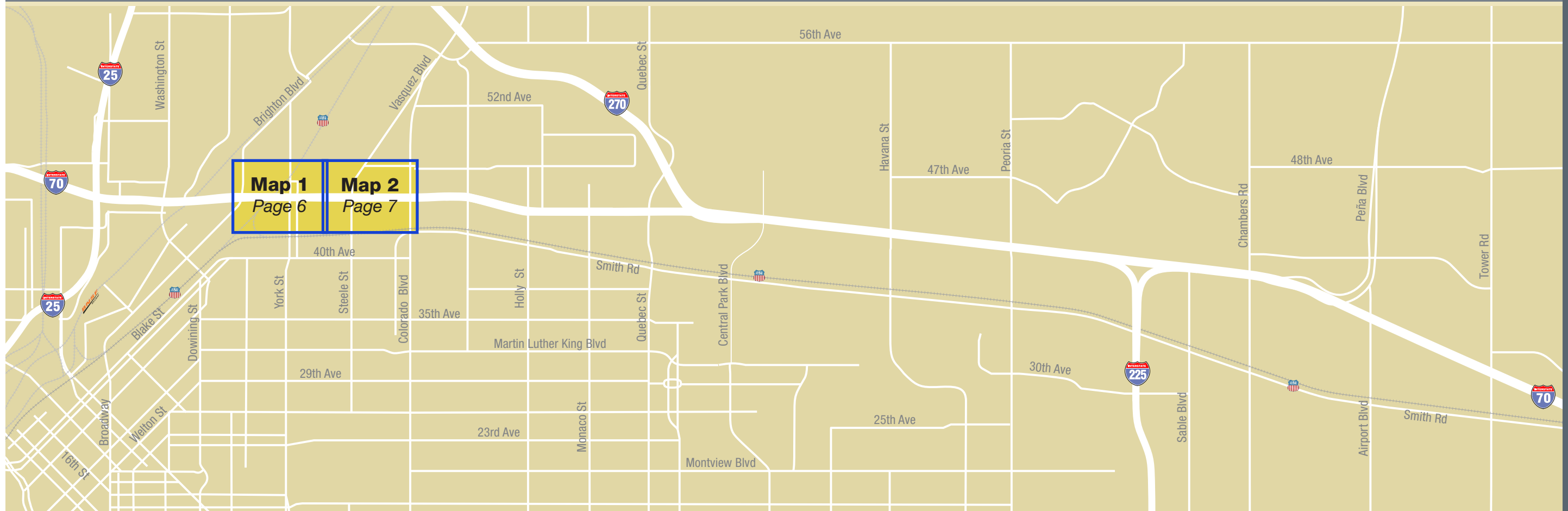
No-Action Alternative, North Optionpage 5

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No-Action Alternative

No-Action Alternative • North Option



No-Action Alternative, North Option

- Replaces the viaduct between Brighton Boulevard and Colorado Boulevard
- Does not add through-lanes to the existing I-70 highway (does not add capacity)
- Expands the highway to the north for standard lane and shoulder widths
- Includes all the planned and programmed roadway and transit improvements in the project area



- Legend
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|-------------------------------|------------------------------|-----------------------|---------------------|
| Proposed highway and ramps | Proposed sidewalk and median | General-purpose lanes | Construction limits |
| Proposed street configuration | Existing pavement | Drainage | Parcel boundaries |

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Legend

	Proposed highway and ramps		Proposed sidewalk and median		General-purpose lanes		Construction limits
	Proposed street configuration		Existing pavement				Parcel boundaries

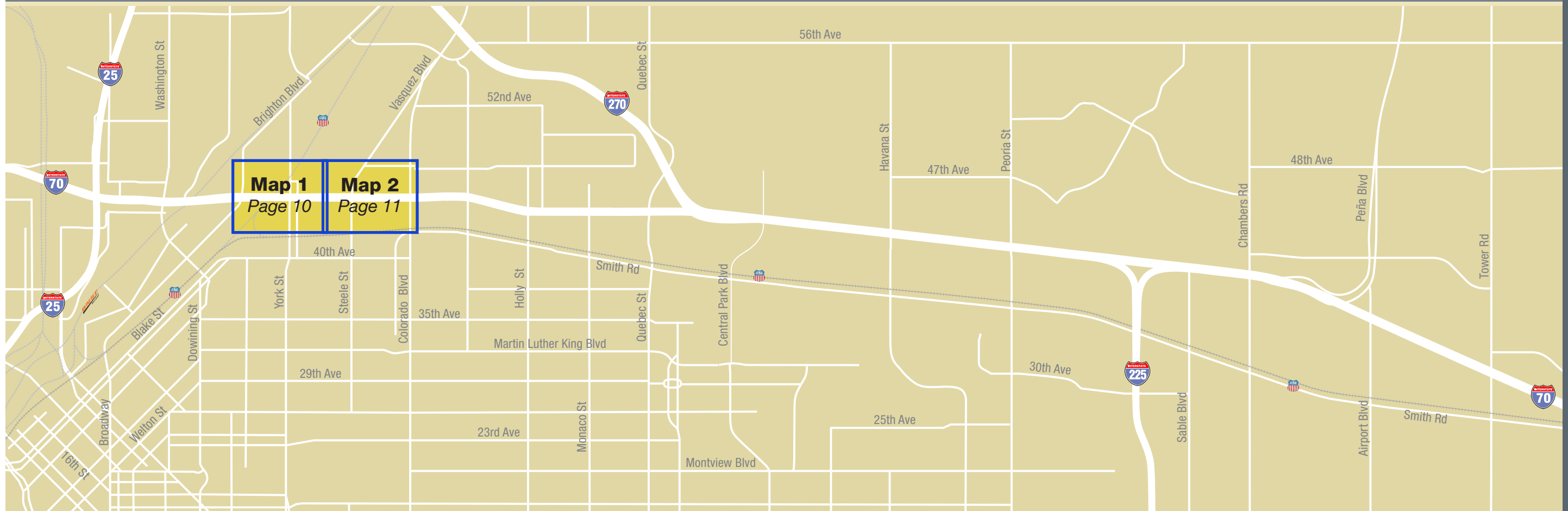
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No-Action Alternative

No-Action Alternative • South Option



No-Action Alternative, South Option

- Replaces the viaduct between Brighton Boulevard and Colorado Boulevard
- Does not add through-lanes to the existing I-70 highway (does not add capacity)
- Expands the highway to the south for standard lane and shoulder widths
- Includes all the planned and programmed roadway and transit improvements in the project area



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Legend

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	Proposed street configuration		Existing pavement				Parcel boundaries

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Build Alternatives

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Build Alternatives

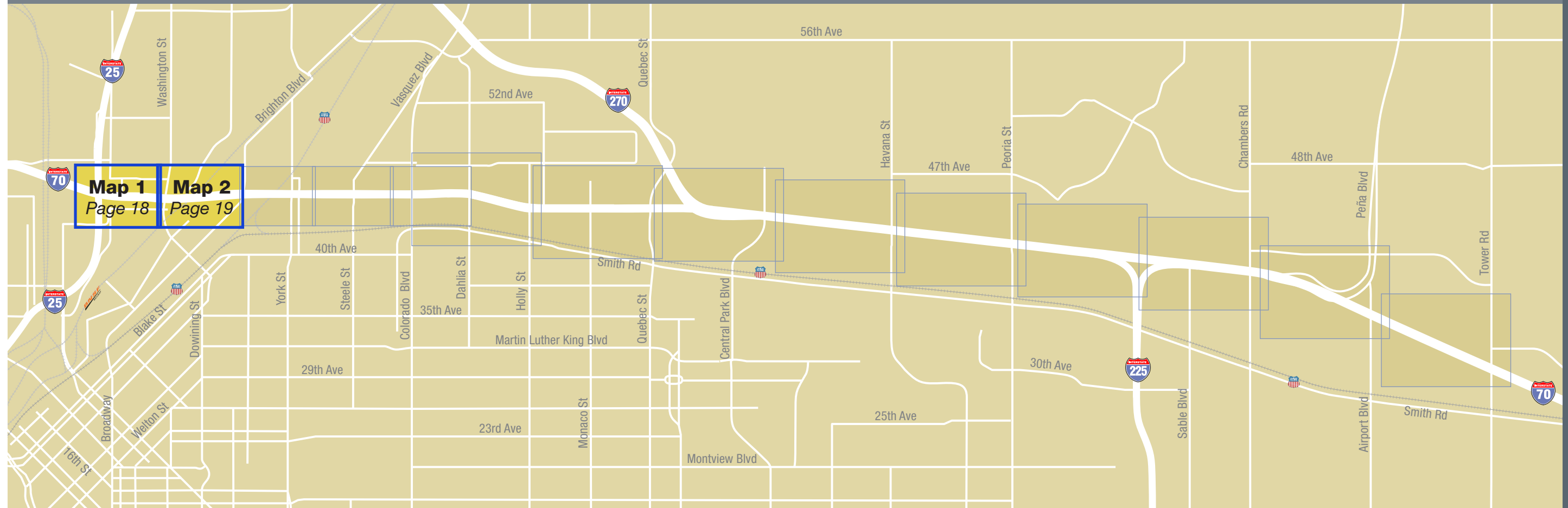
I-25 to Brighton Boulevard

I-70 was reconstructed and widened from I-25 to Brighton Boulevard in the recent past, so no reconstruction of this section is required. The work within this section is restriping only to transition the existing roadway to improved conditions.

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Build Alternatives • I-25 to Brighton Boulevard

General-Purpose Lanes Option



General-Purpose Lanes Option

- Adds through-lanes to the existing I-70 highway by restriping
- No reconstruction or widening of the existing highway is planned



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|  Proposed highway and ramps |  Proposed sidewalk and median |  General-purpose lanes |  Construction limits |
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|  | Proposed street configuration |  | Existing pavement |  | Parcel boundaries |  | Parcel boundaries |

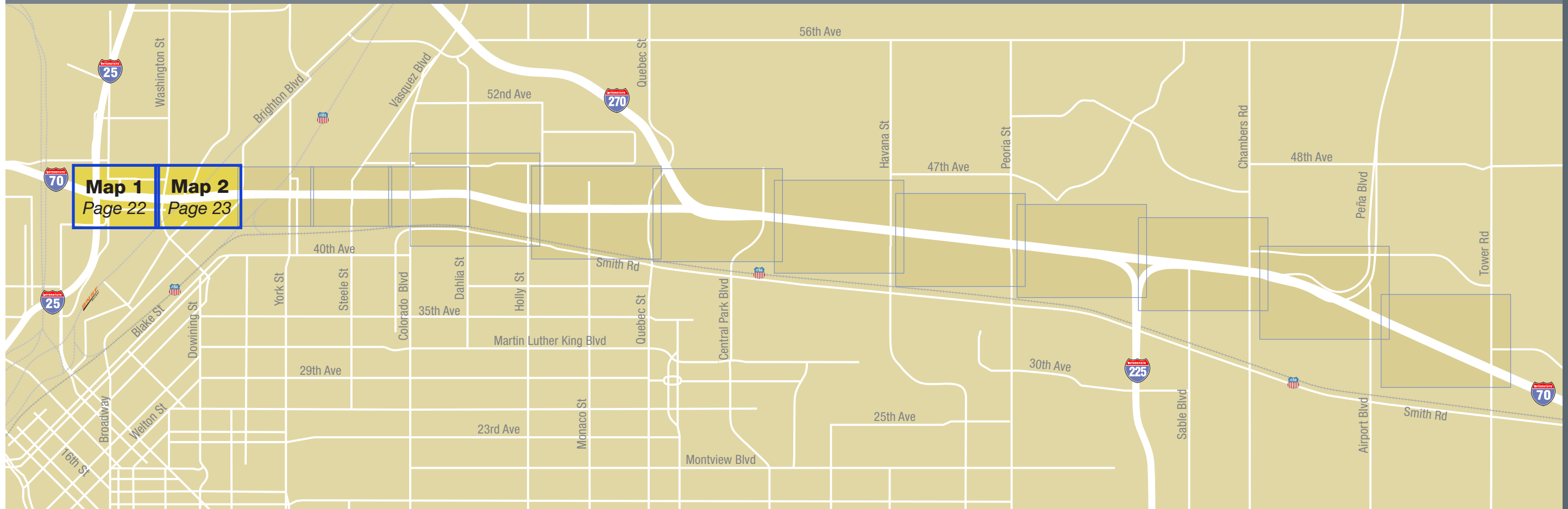
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Build Alternatives • I-25 to Brighton Boulevard

Managed Lanes Option



Managed Lanes Option

- By restriping, adds managed through-lanes to eastbound I-70 highway
- By restriping, ends managed through-lanes on westbound I-70 highway prior to I-25
- Employs an operational strategy to manage the traffic for the added capacity in the corridor
- No reconstruction or widening of the existing highway is planned



- Legend
- Proposed highway and ramps

Proposed sidewalk and median
- General-purpose lanes
- Striped buffer
- Construction limits
- Proposed street configuration
- Existing Pavement
- Managed lanes
- Parcel boundaries

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Build Alternatives

Brighton Boulevard to Colorado Boulevard

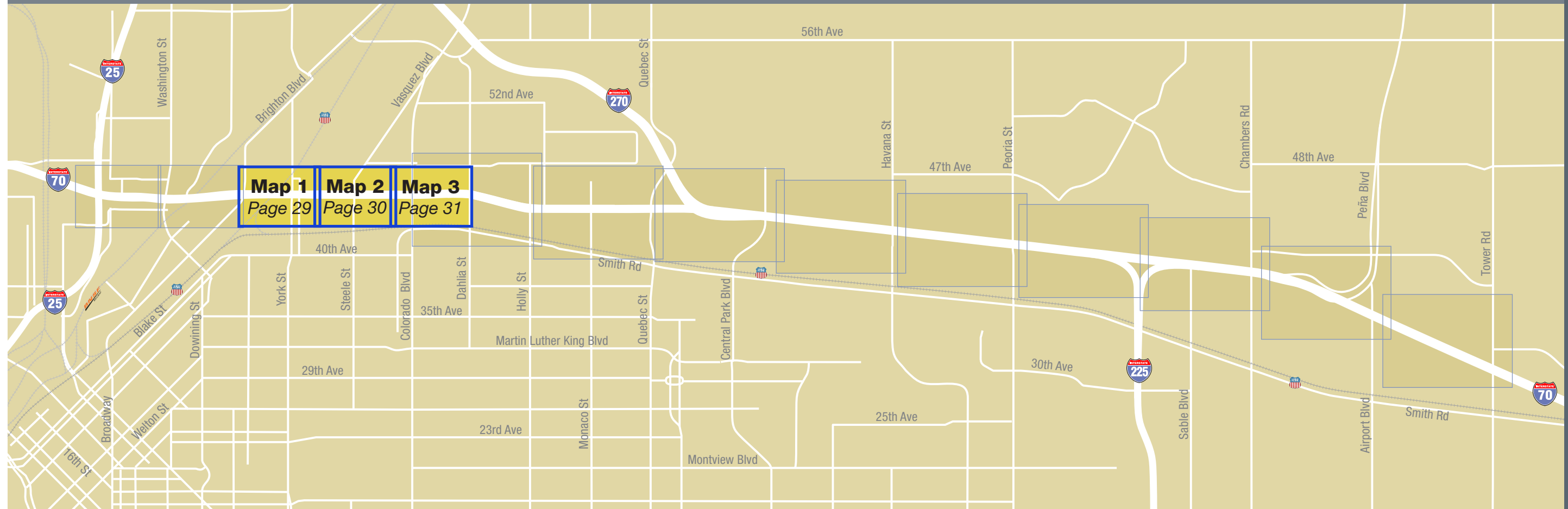
Expansion to the north or south is required due to the highway widening and to allow the existing viaduct to remain operational during construction.

The existing York Street interchange is removed with all of the Build Alternatives.

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Build Alternatives • Brighton Boulevard to Colorado Boulevard

Revised Viaduct Alternative • North Option • General-Purpose Lanes Option



Revised Viaduct Alternative, North Option, General-Purpose Lanes Option

- Adds two through-lanes to the existing I-70 highway in each direction
- Replaces the viaduct between Brighton Boulevard and Colorado Boulevard
- Expands the highway to the north between Brighton Boulevard and Colorado Boulevard
- Reconstructs 46th Avenue under the south side of the viaduct
- Reconstructs the existing Colorado Boulevard and Steele Street/Vasquez Boulevard interchanges as a single split diamond interchange

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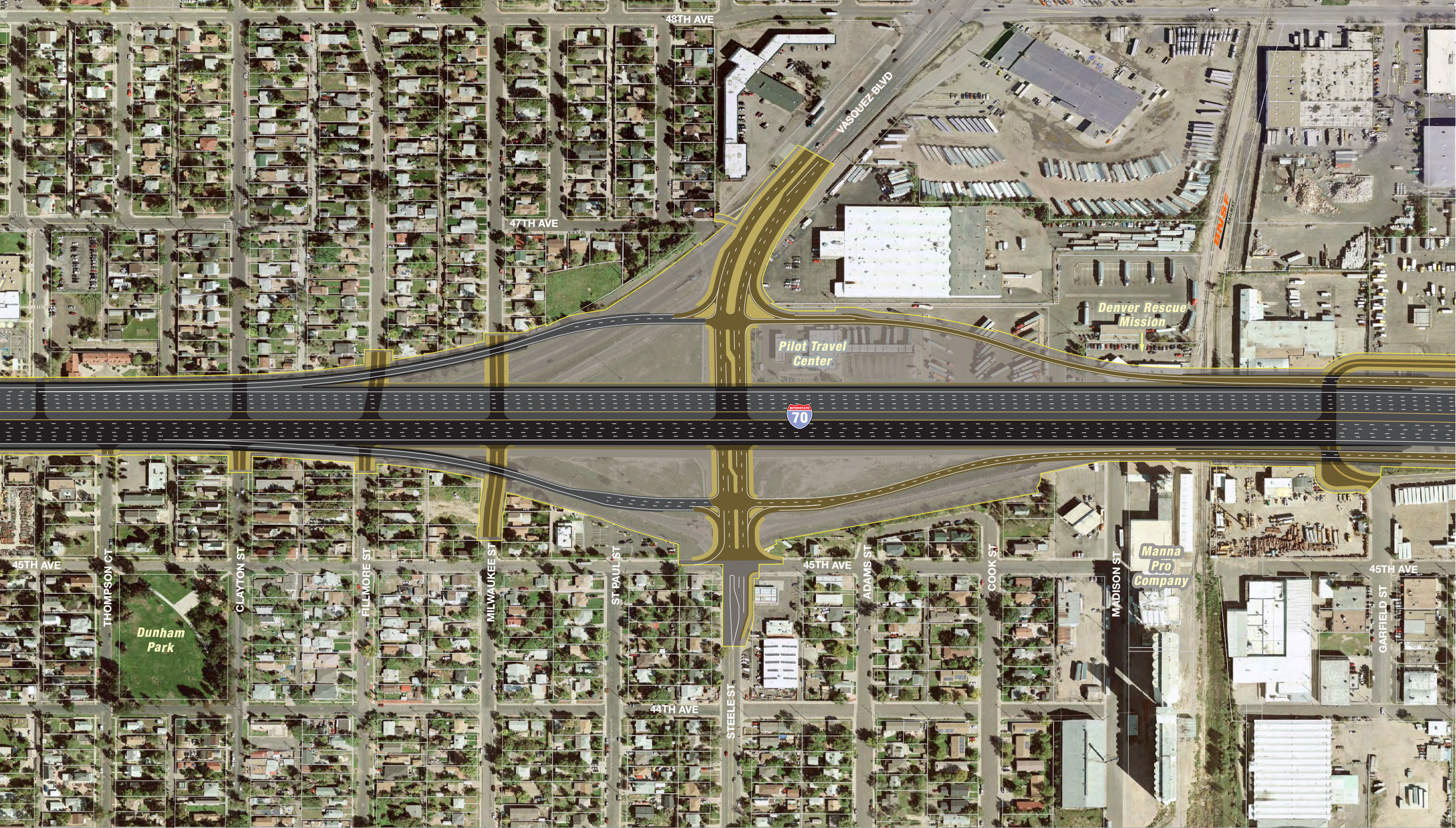


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| Proposed highway and ramps | Proposed sidewalk and median | General-purpose lanes | Construction limits |
| Proposed street configuration | Existing pavement | Drainage | Parcel boundaries |

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MAP 2 Revised Viaduct Alternative • North Option • General-Purpose Lanes Option



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|-------------------------------|------------------------------|-----------------------|---------------------|
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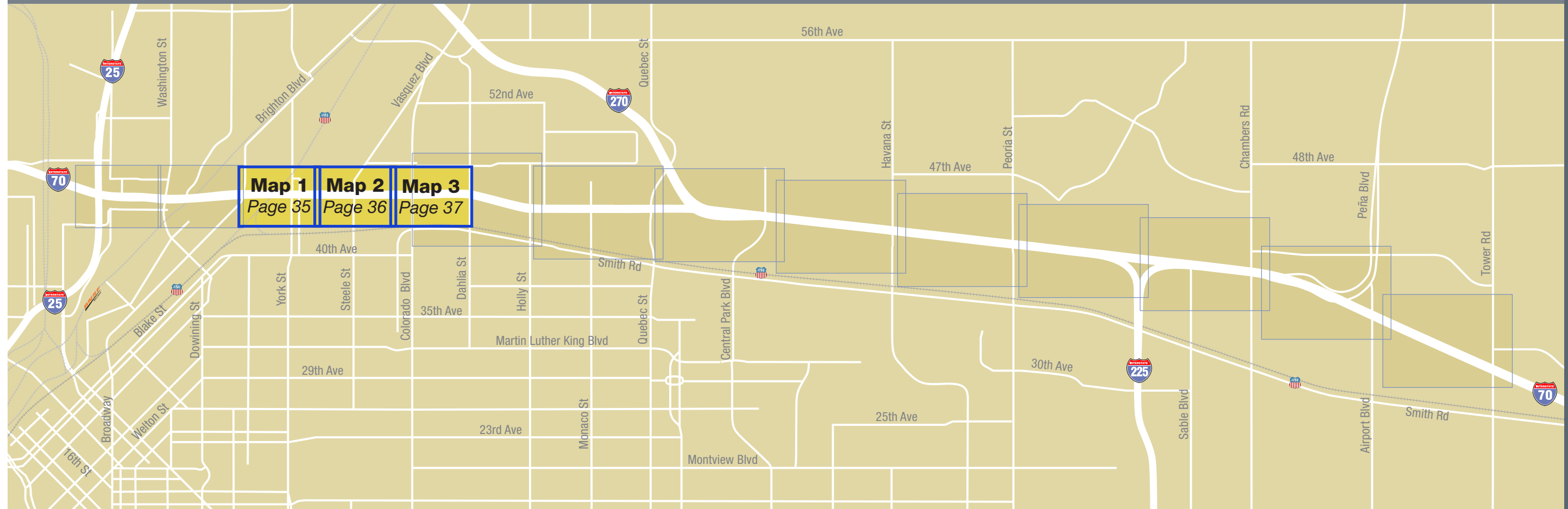
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Build Alternatives • Brighton Boulevard to Colorado Boulevard

Revised Viaduct Alternative • North Option • Managed Lanes Option

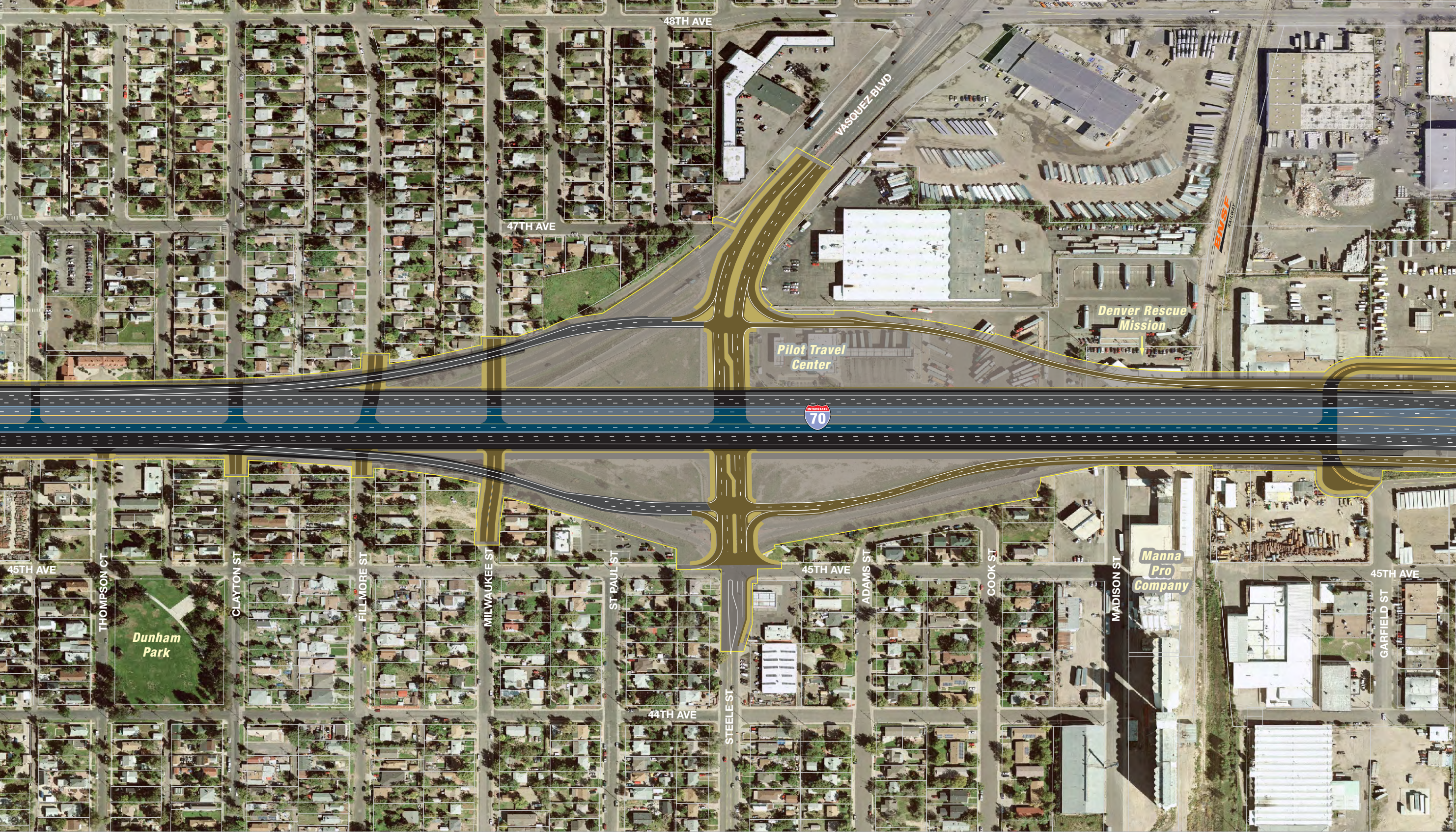


Revised Viaduct Alternative, North Option, Managed Lanes Option

- Adds two through-lanes to the existing I-70 highway in each direction
- Employs an operational strategy to manage the traffic for the added capacity in the corridor
- Replaces the viaduct between Brighton Boulevard and Colorado Boulevard
- Expands the highway to the north between Brighton Boulevard and Colorado Boulevard
- Reconstructs 46th Avenue under the south side of the viaduct
- Reconstructs the existing Colorado Boulevard and Steele Street/Vasquez Boulevard interchanges as a single split diamond interchange

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|---|--|---|--|---|
|  Proposed highway and ramps |  Proposed sidewalk and median |  General-purpose lanes |  Striped buffer |  Construction limits |
|  Proposed street configuration |  Existing Pavement |  Managed lanes | |  Parcel boundaries |

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Legend

Proposed highway and ramps	Proposed sidewalk and median	General-purpose lanes	Striped buffer	Construction limits
Proposed street configuration	Existing Pavement	Managed lanes		Parcel boundaries

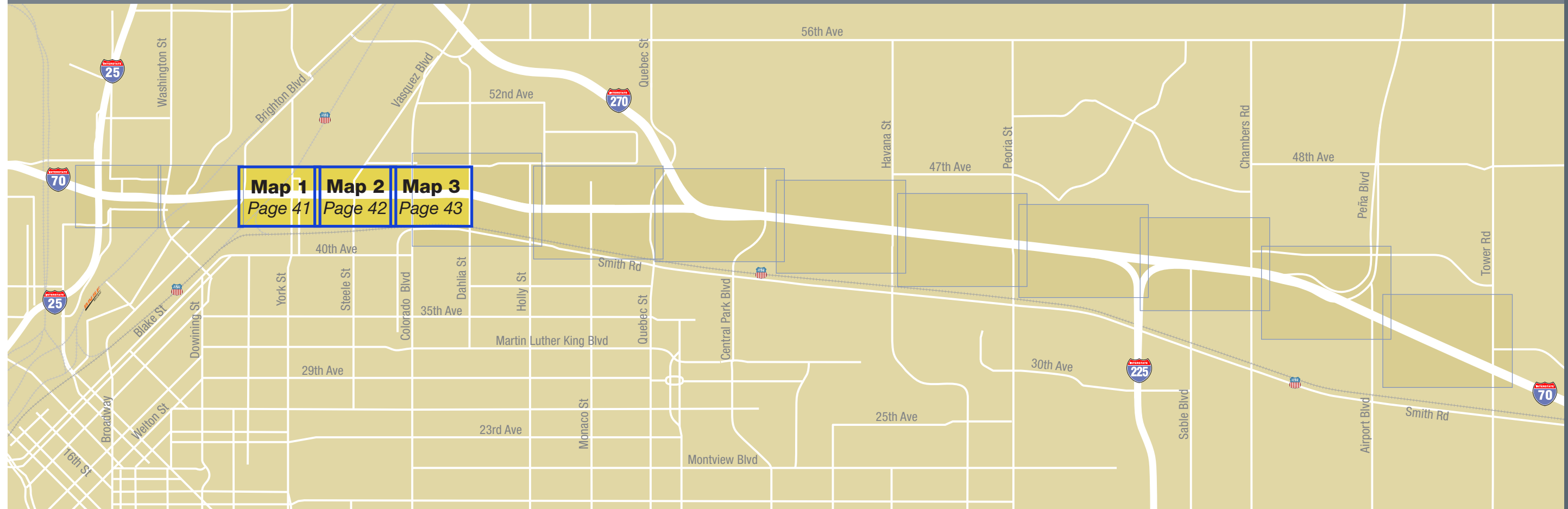
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Build Alternatives • Brighton Boulevard to Colorado Boulevard

Revised Viaduct Alternative • South Option • General-Purpose Lanes Option



Revised Viaduct Alternative, South Option, General-Purpose Lanes Option

- Adds two through-lanes to the existing I-70 highway in each direction
- Replaces the viaduct between Brighton Boulevard and Colorado Boulevard
- Expands the highway to the south between Brighton Boulevard and Colorado Boulevard
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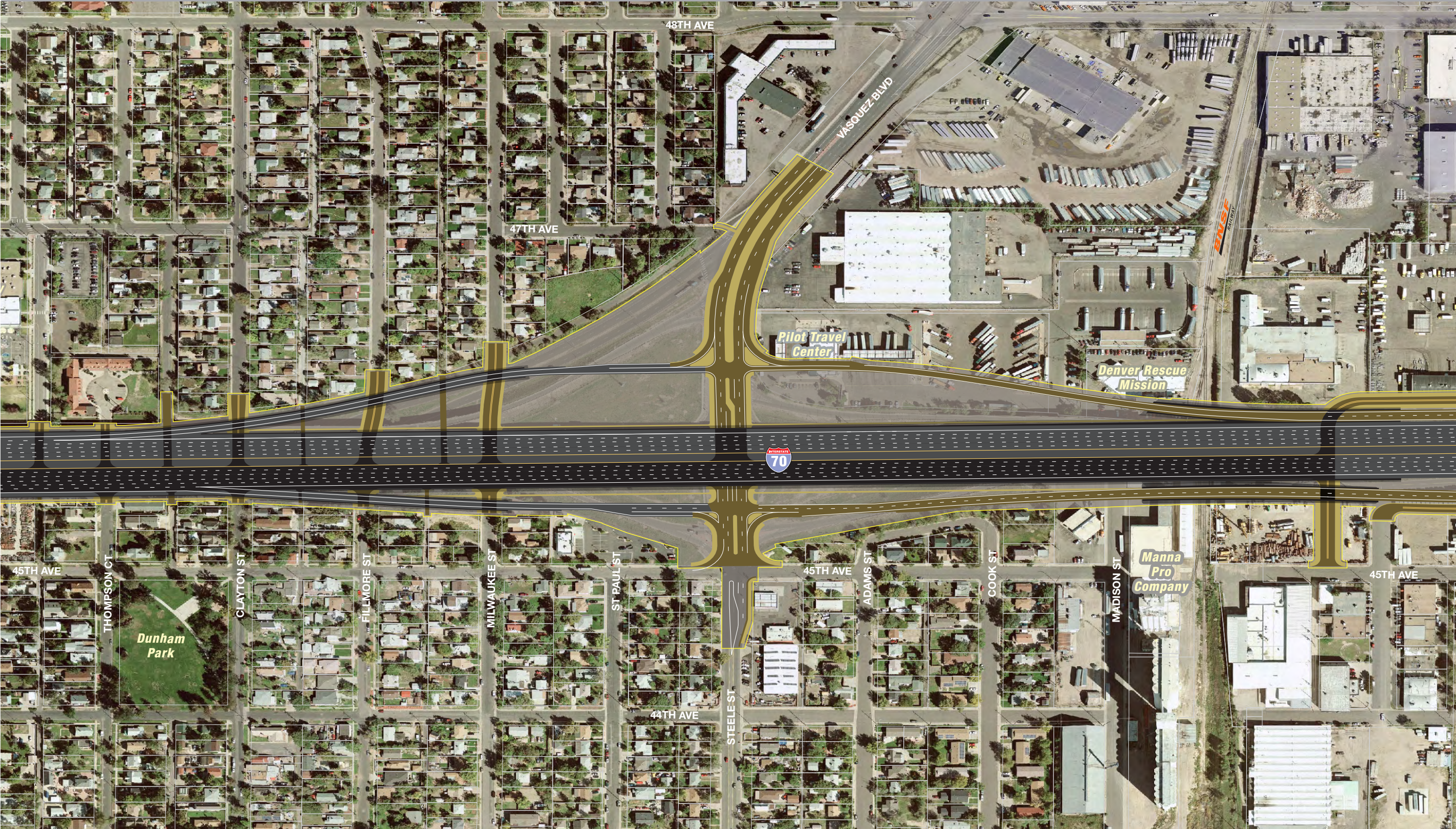
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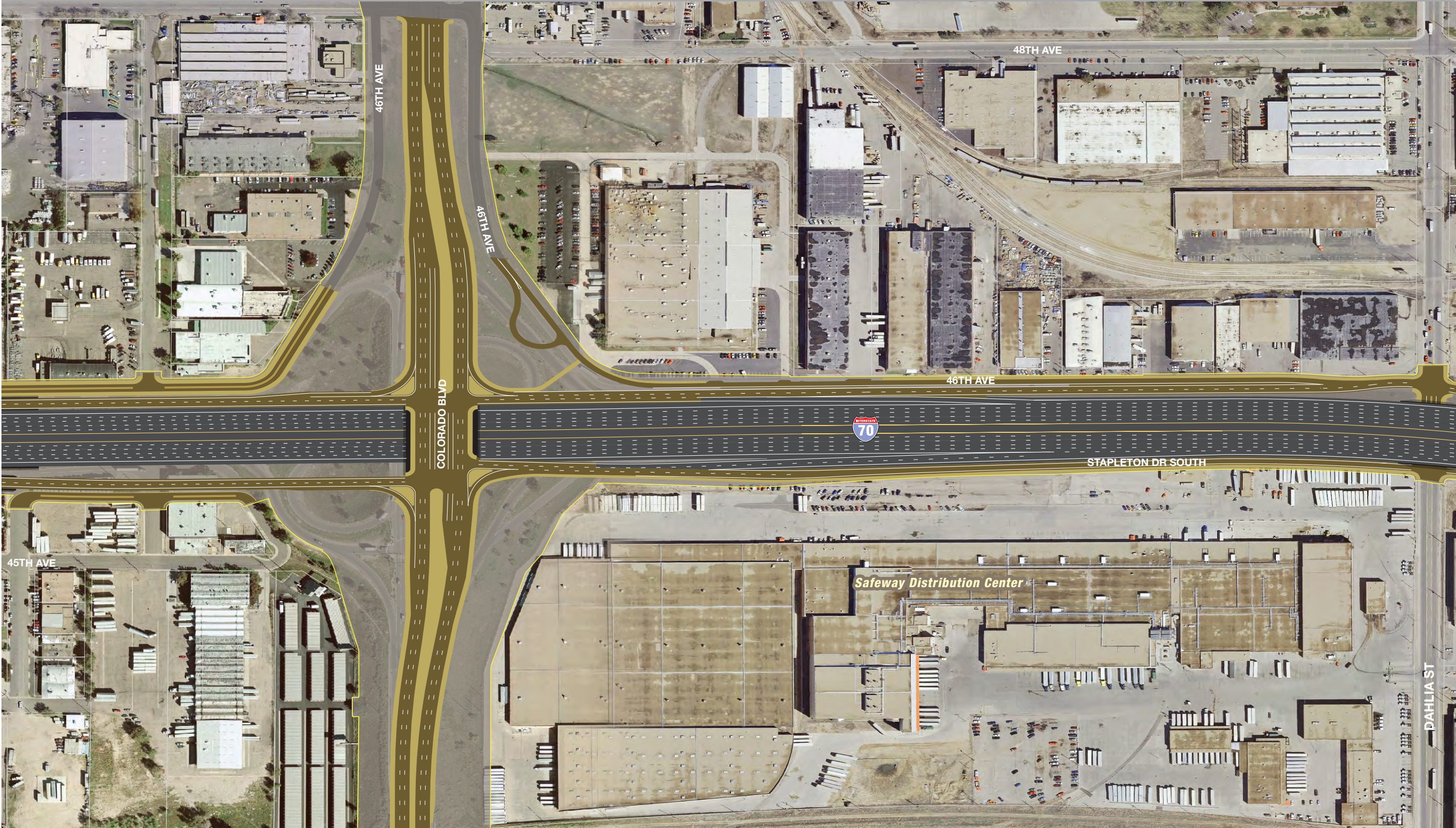
MAP 2 Revised Viaduct Alternative • South Option • General-Purpose Lanes Option



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|---|-------------------------------|---|------------------------------|---|-----------------------|---|---------------------|
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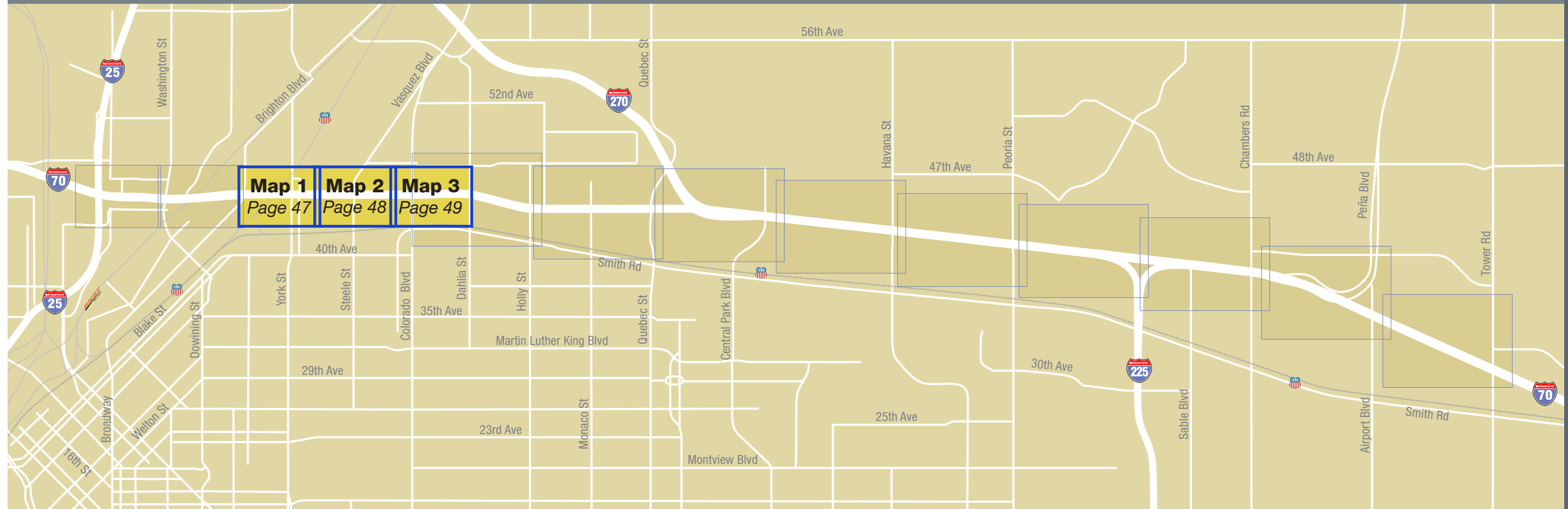
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Build Alternatives • Brighton Boulevard to Colorado Boulevard

Revised Viaduct Alternative • South Option • Managed Lanes Option



Revised Viaduct Alternative, South Option, Managed Lanes Option

- Adds two through-lanes to the existing I-70 highway in each direction
- Employs an operational strategy to manage the traffic for the added capacity in the corridor
- Replaces the viaduct between Brighton Boulevard and Colorado Boulevard
- Expands the highway to the south between Brighton Boulevard and Colorado Boulevard
- Reconstructs 46th Avenue under the south side of the viaduct
- Reconstructs the existing Colorado Boulevard and Steele Street/Vasquez Boulevard interchanges as a single split diamond interchange

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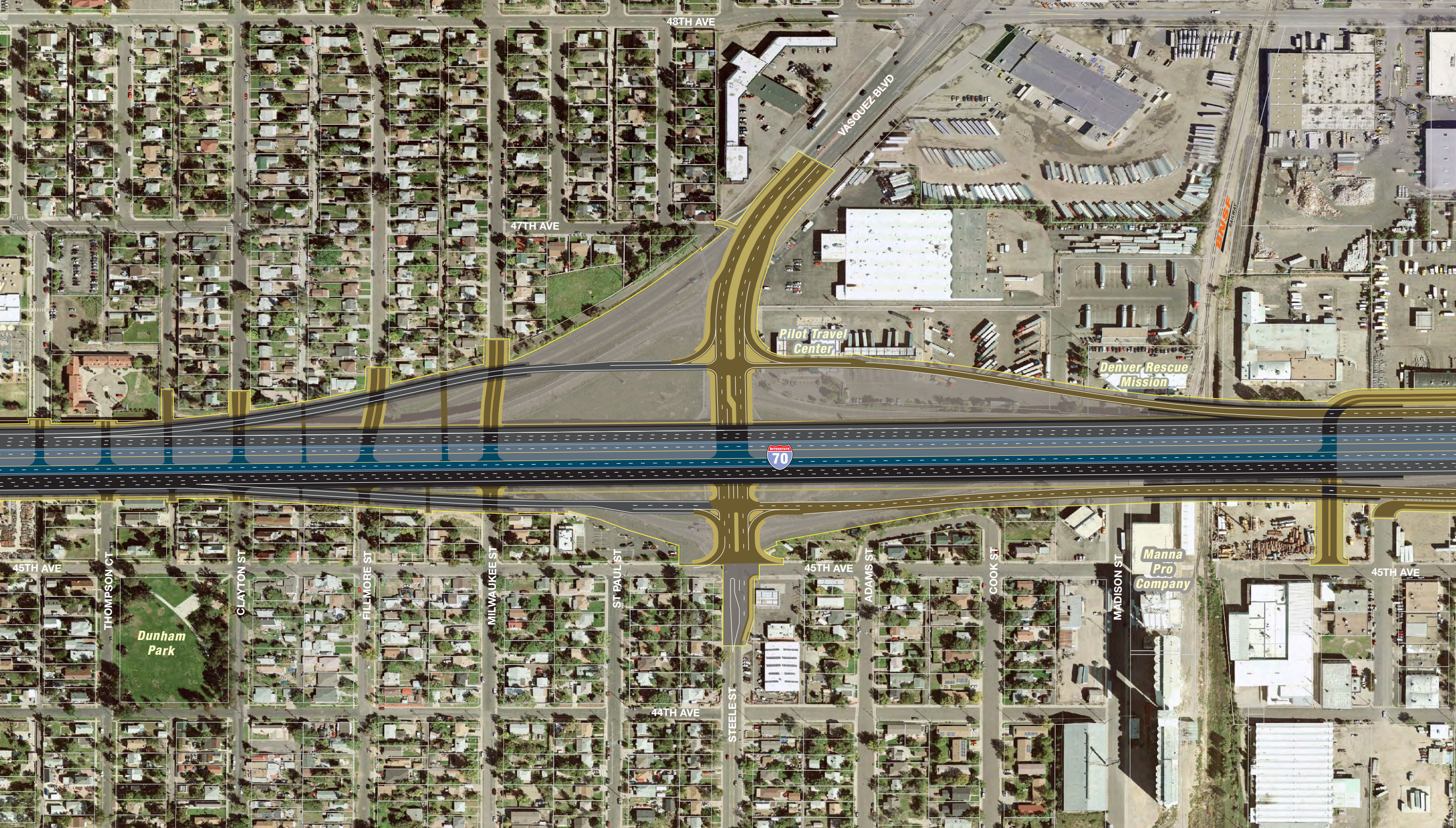
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|-------------------------------|------------------------------|-----------------------|----------------|---------------------|
| Proposed highway and ramps | Proposed sidewalk and median | General-purpose lanes | Striped buffer | Construction limits |
| Proposed street configuration | Existing Pavement | Managed lanes | Drainage | Parcel boundaries |

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MAP 2 Revised Viaduct Alternative • South Option • Managed Lanes Option



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|---|--|---|--|---|
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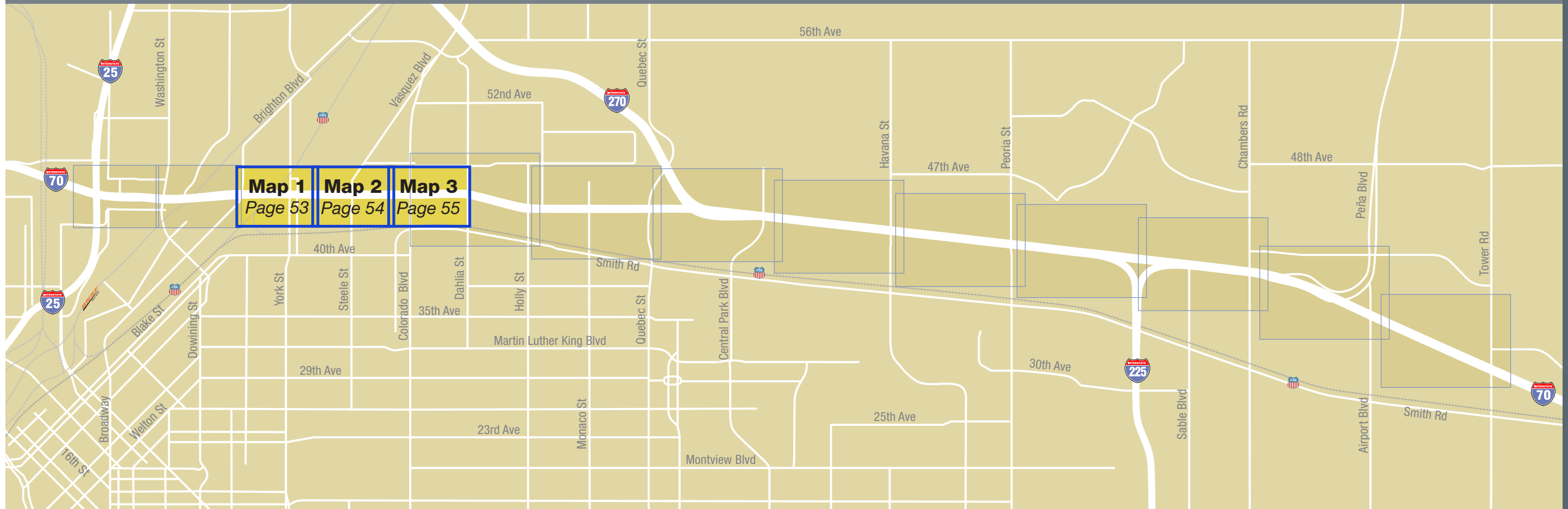
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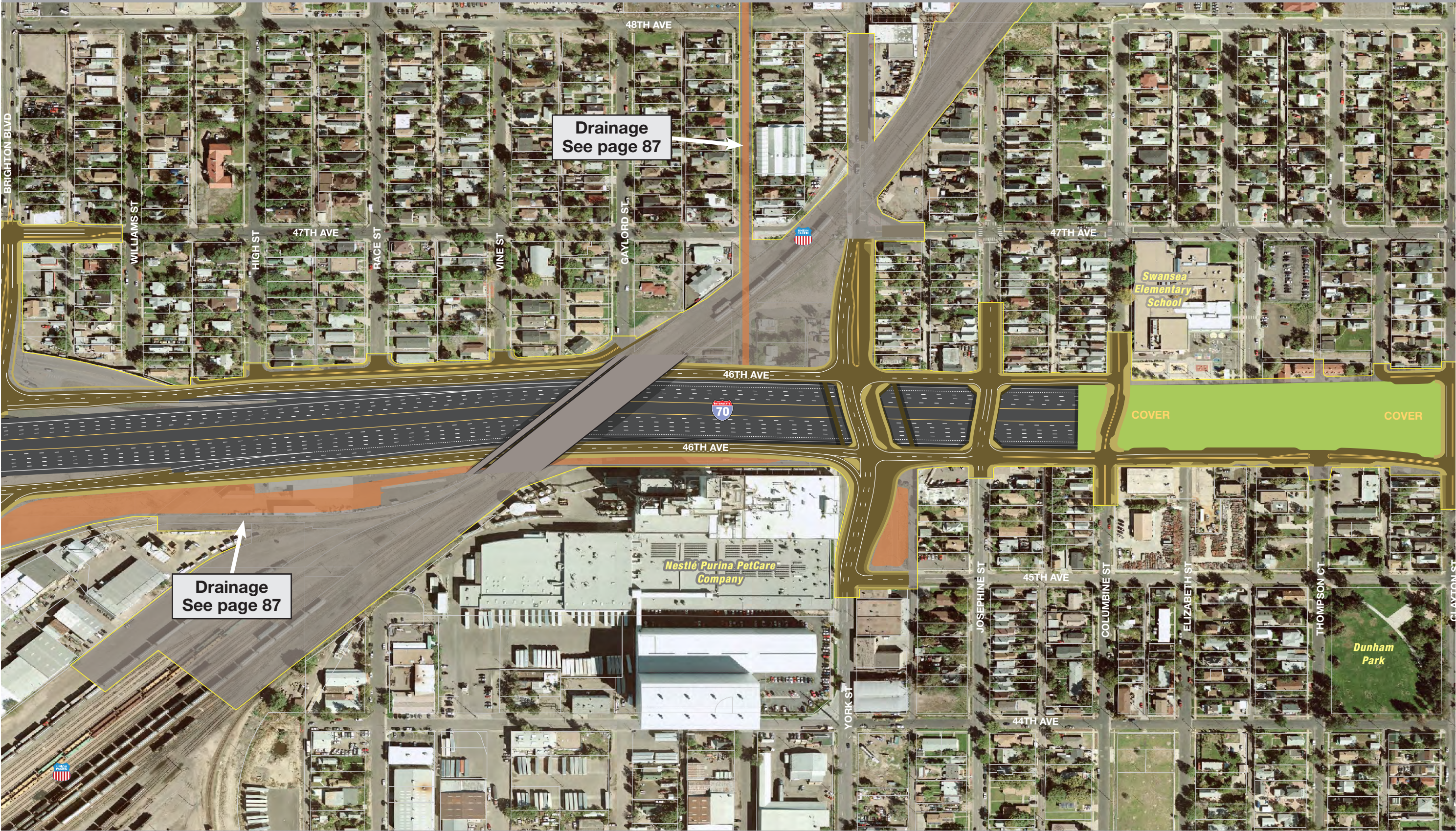
Partial Cover Lowered Alternative • General-Purpose Lanes Option



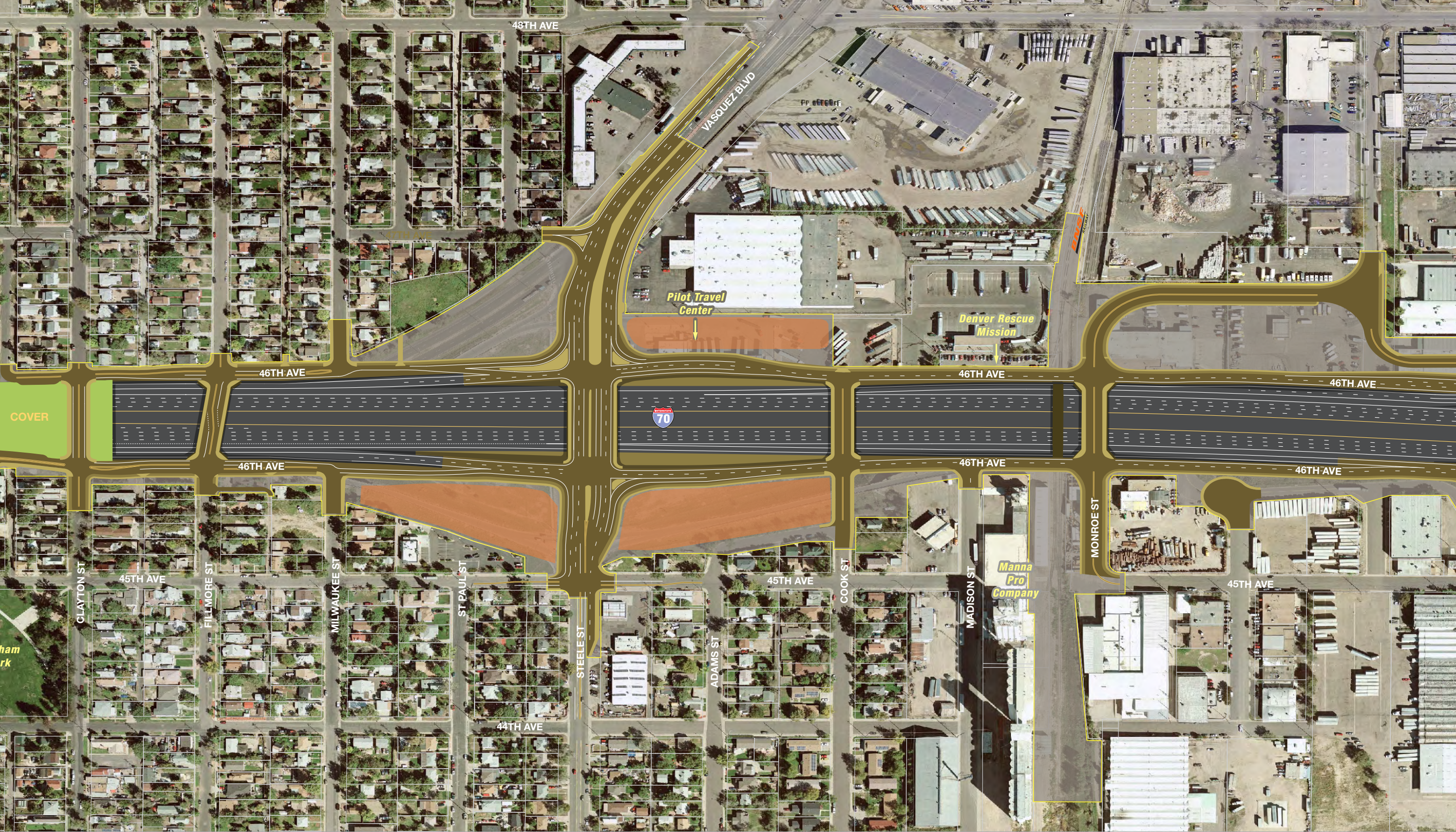
Partial Cover Lowered Alternative, General-Purpose Lanes Option

- Adds two through-lanes to the existing I-70 highway in each direction
- Removes the viaduct between Brighton Boulevard and Colorado Boulevard and reconstructs I-70 below the existing grade
- Expands the highway to the north between Brighton Boulevard and Colorado Boulevard
- Adds a cover to the below-ground-level portion of the highway between Columbine Street and Clayton Street
- Reconstructs 46th Avenue on the north and south side of I-70 adjacent to the highway
- Reconstructs the existing Colorado Boulevard and Steele Street/Vasquez Boulevard interchanges as a single split diamond interchange

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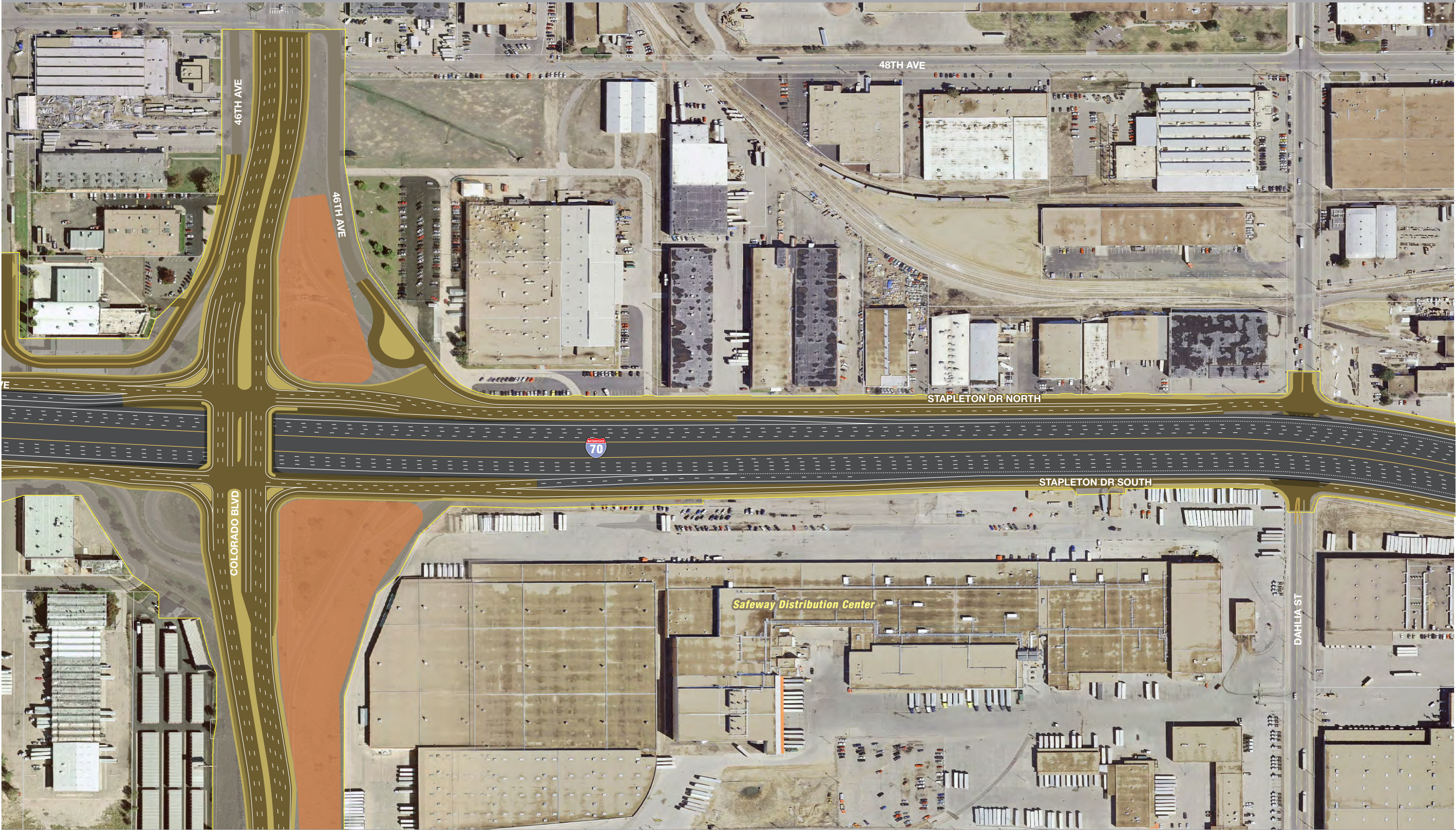
MAP 2 Partial Cover Lowered Alternative • General-Purpose Lanes Option



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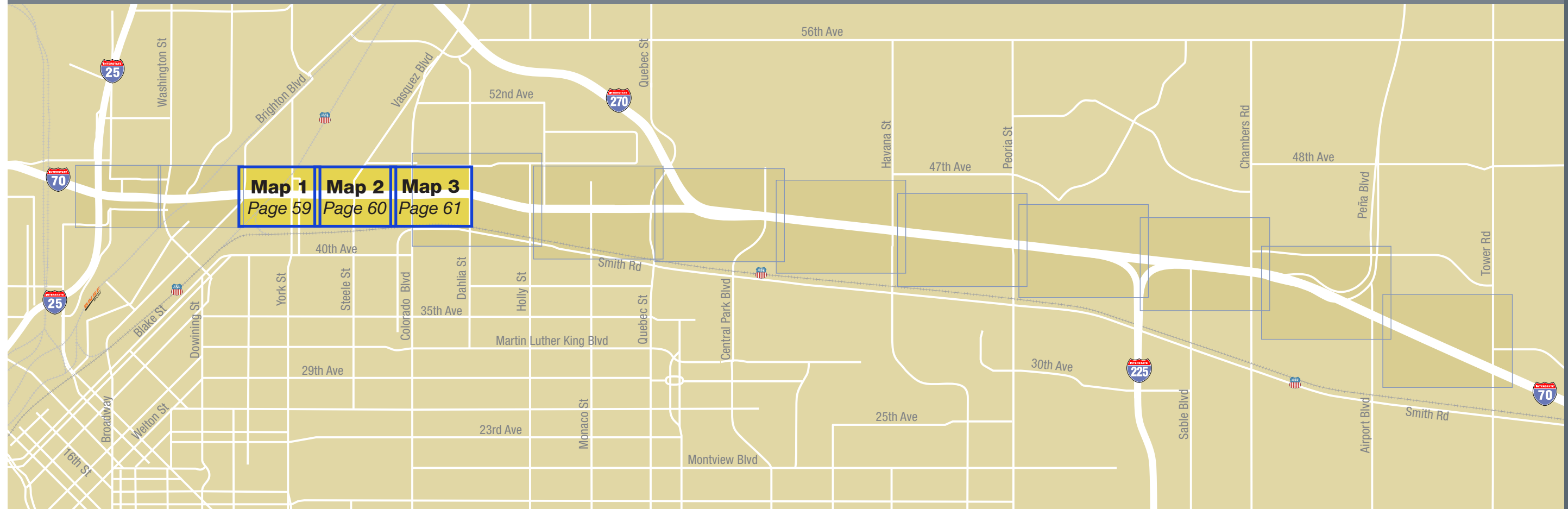
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Build Alternatives • Brighton Boulevard to Colorado Boulevard

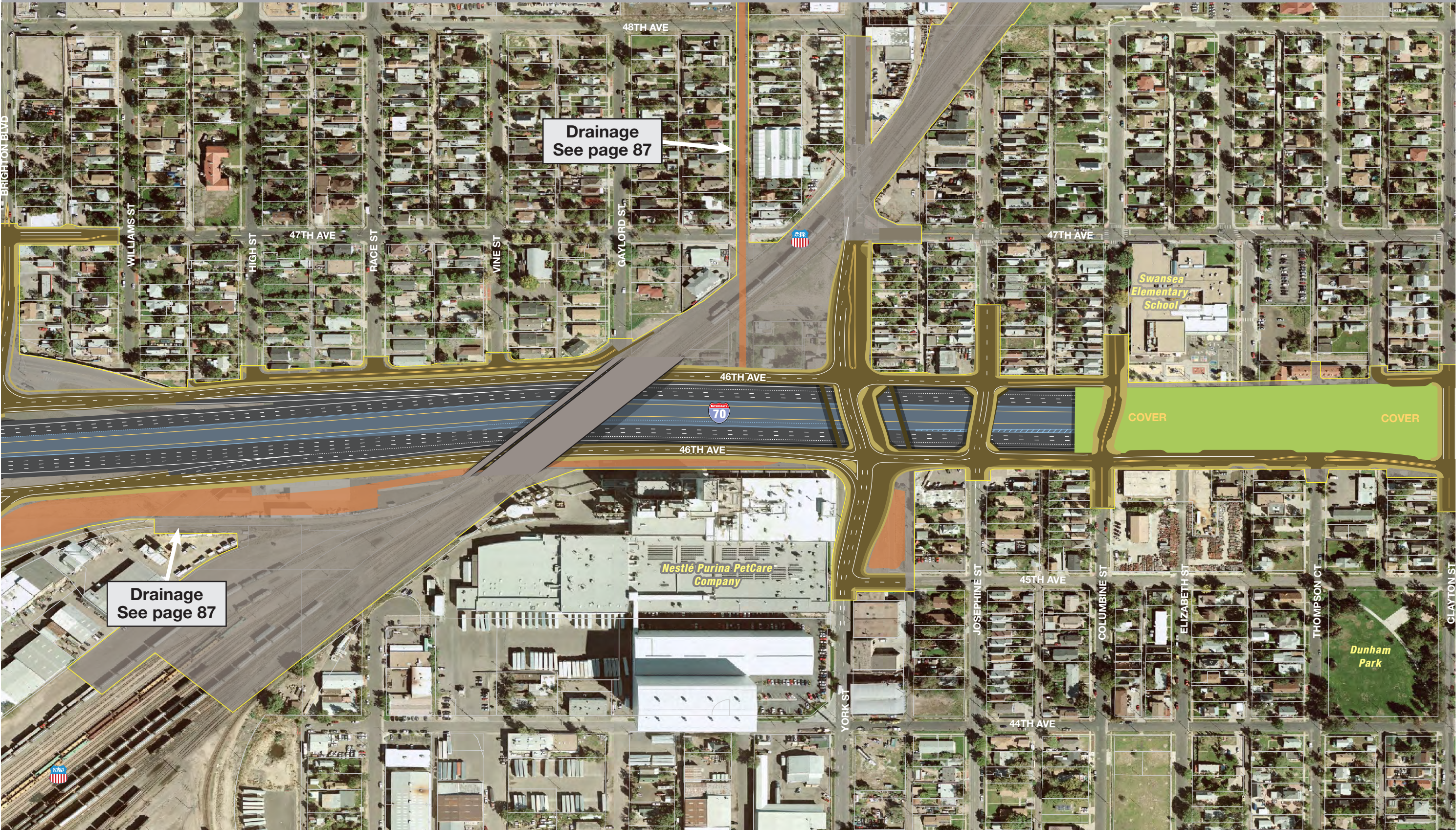
Partial Cover Lowered Alternative • Managed Lanes Option



Partial Cover Lowered Alternative, Managed Lanes Option

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- Expands the highway to the north between Brighton Boulevard and Colorado Boulevard
- Adds a cover to the below-ground-level portion of the highway between Columbine Street and Clayton Street
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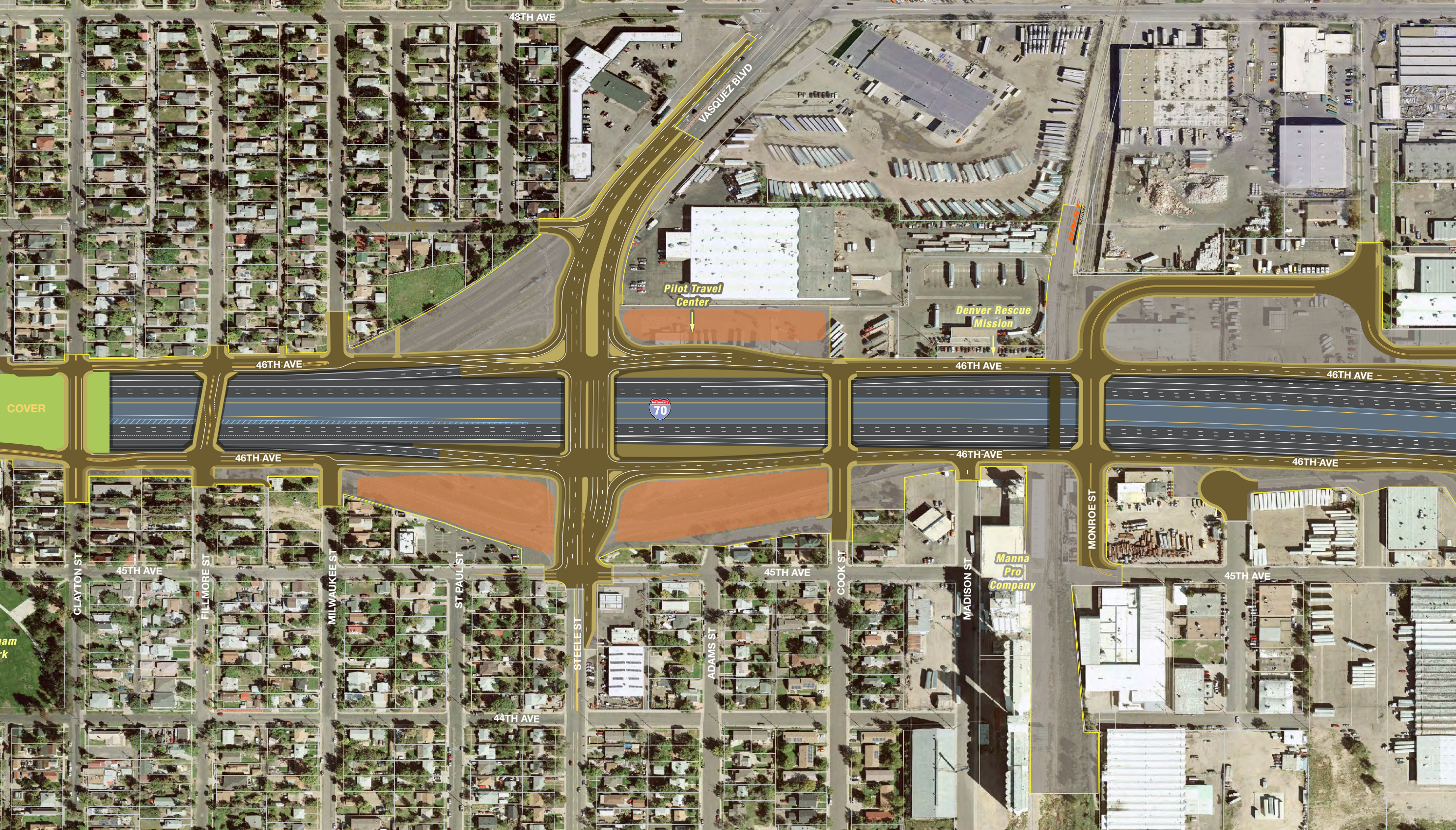
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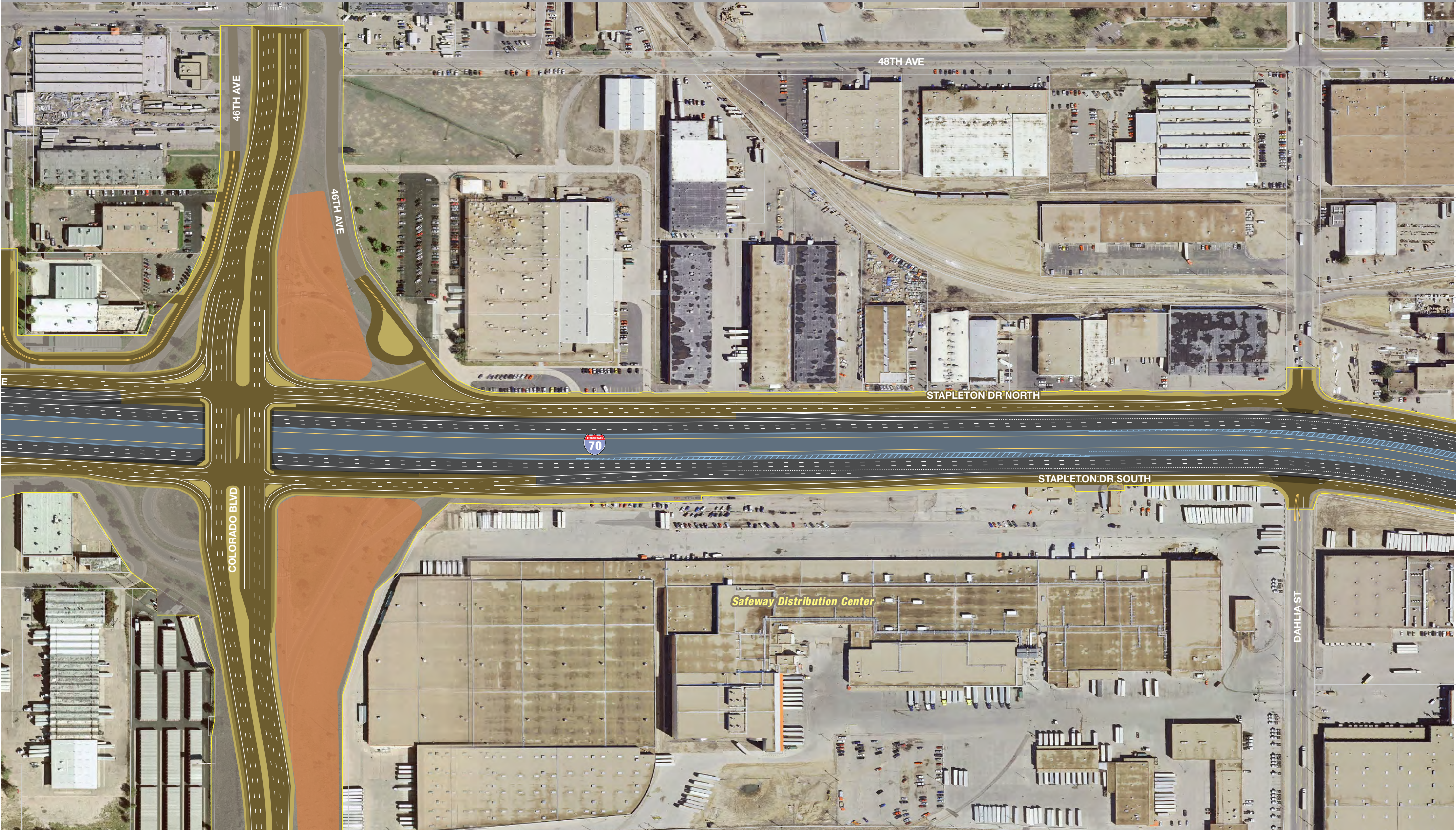
MAP 2 Partial Cover Lowered Alternative • Managed Lanes Option



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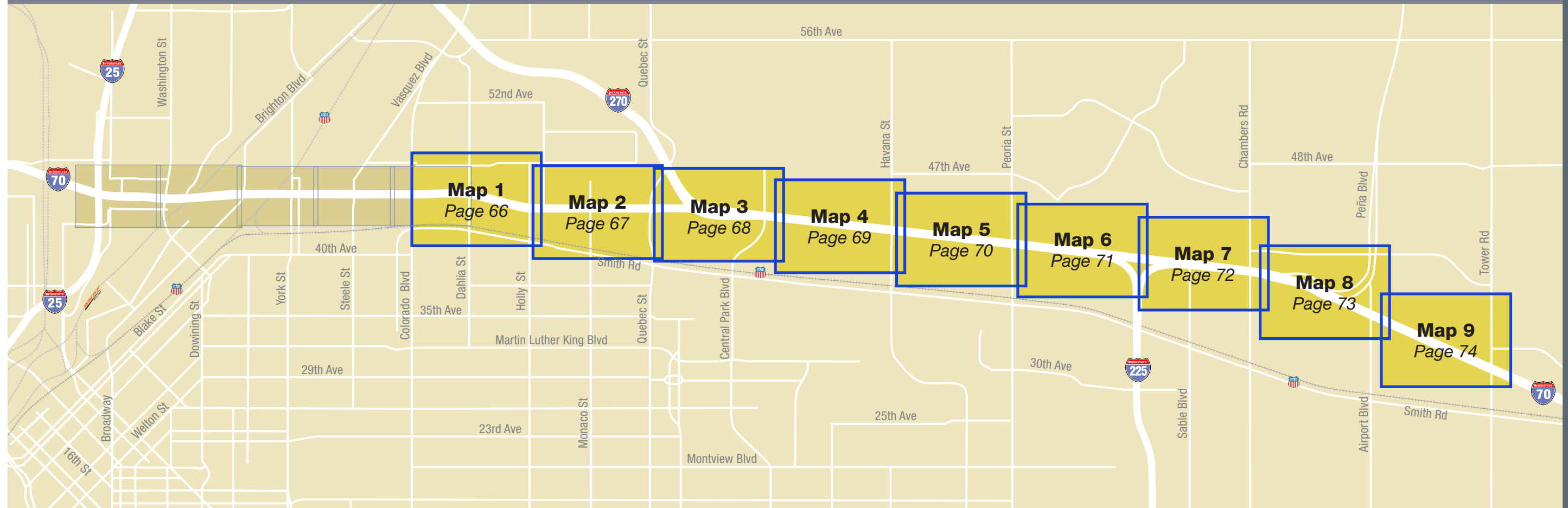
Build Alternatives

Colorado Boulevard to Tower Road

I-70 is reconstructed and widened generally along the existing centerline of the highway.

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Build Alternatives • Colorado Boulevard to Tower Road General-Purpose Lanes Option



General-Purpose Lanes Option

- Adds two through-lanes to the existing I-70 highway in each direction
- Provides Holly Street access to and from I-70; the existing Dahlia Street and Monaco Street slip ramp connections are located closer to Holly Street to reduce vehicle conflicts

MAP 1 Colorado Boulevard to Tower Road • General-Purpose Lanes Option




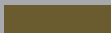
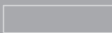
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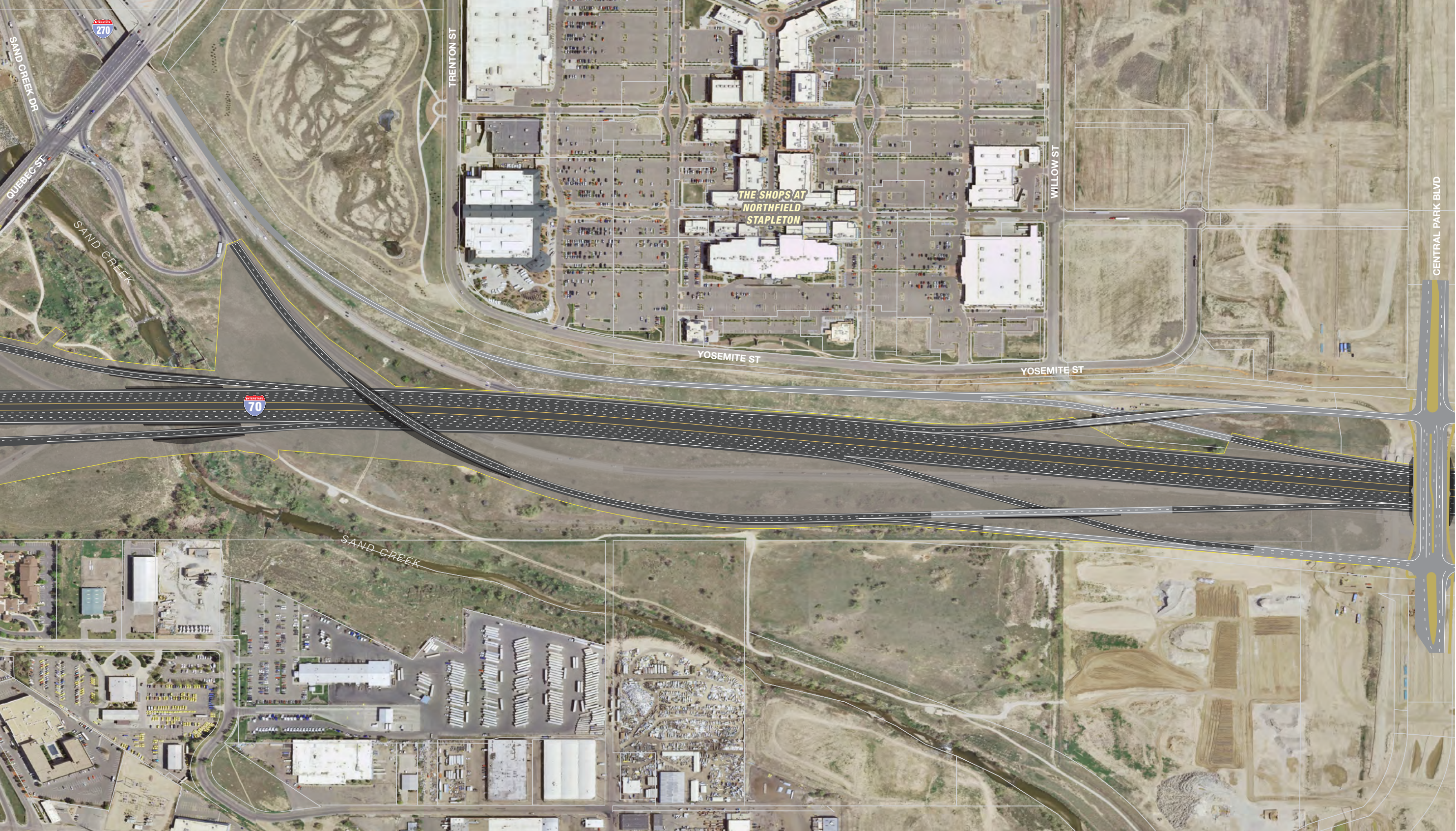
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 Proposed street configuration	 Existing pavement		 Parcel boundaries

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NOT TO SCALE

MAP 3 Colorado Boulevard to Tower Road • General-Purpose Lanes Option



- Legend
- | | | | | | | | |
|---|-------------------------------|---|------------------------------|---|-----------------------|---|---------------------|
|  | Proposed highway and ramps |  | Proposed sidewalk and median |  | General-purpose lanes |  | Construction limits |
|  | Proposed street configuration |  | Existing pavement |  | Parcel boundaries |  | Parcel boundaries |

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Legend

	Proposed highway and ramps		Proposed sidewalk and median		General-purpose lanes		Construction limits
	Proposed street configuration		Existing pavement		Parcel boundaries		NOT TO SCALE

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MAP 5 Colorado Boulevard to Tower Road • General-Purpose Lanes Option



- Legend
- Proposed highway and ramps

Proposed sidewalk and median

General-purpose lanes

Construction limits

Proposed street configuration

Existing pavement

Parcel boundaries

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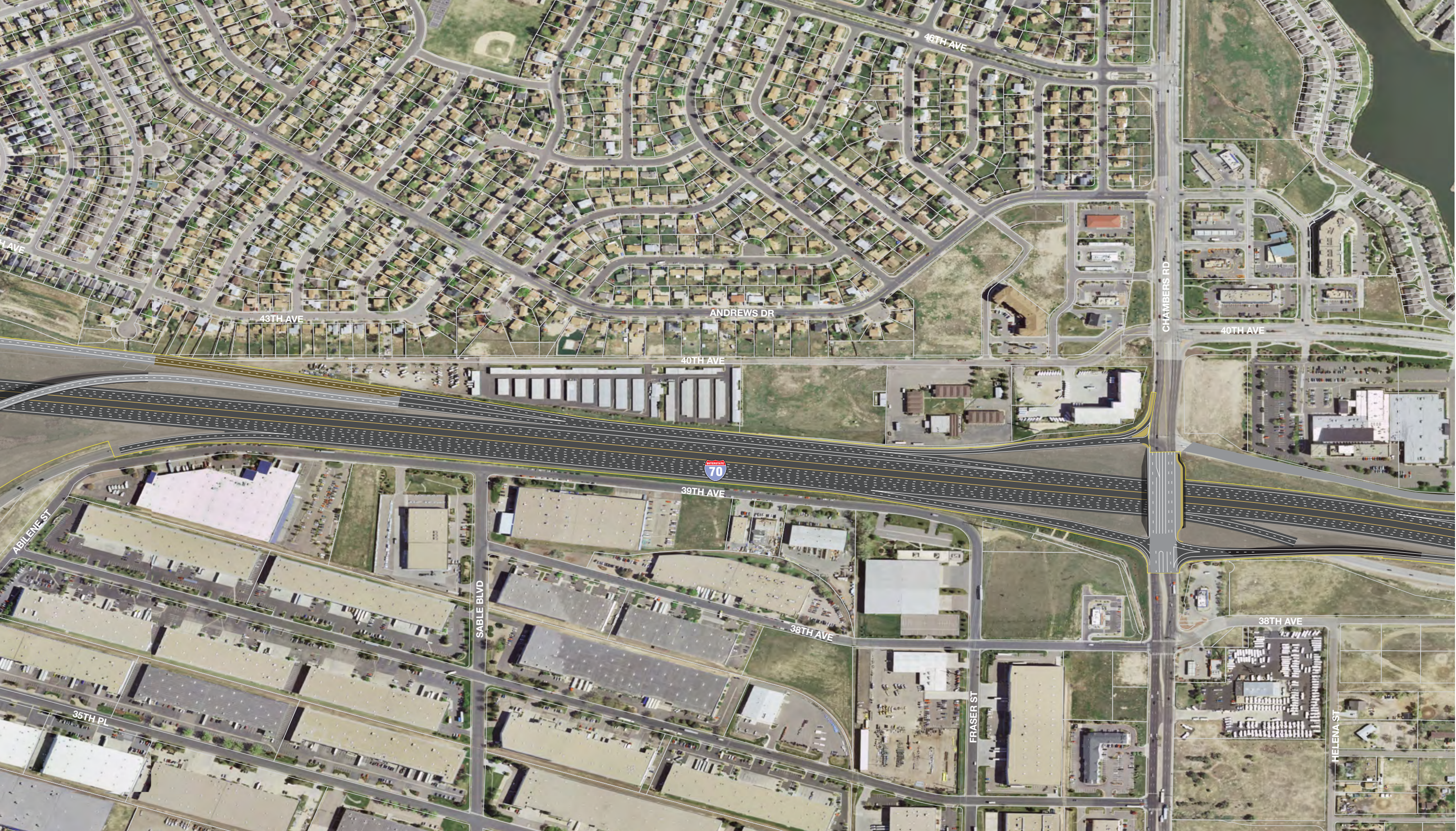


Legend

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|---|--|---|---|
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- Legend
- Proposed highway and ramps

Proposed sidewalk and median

General-purpose lanes

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Proposed street configuration

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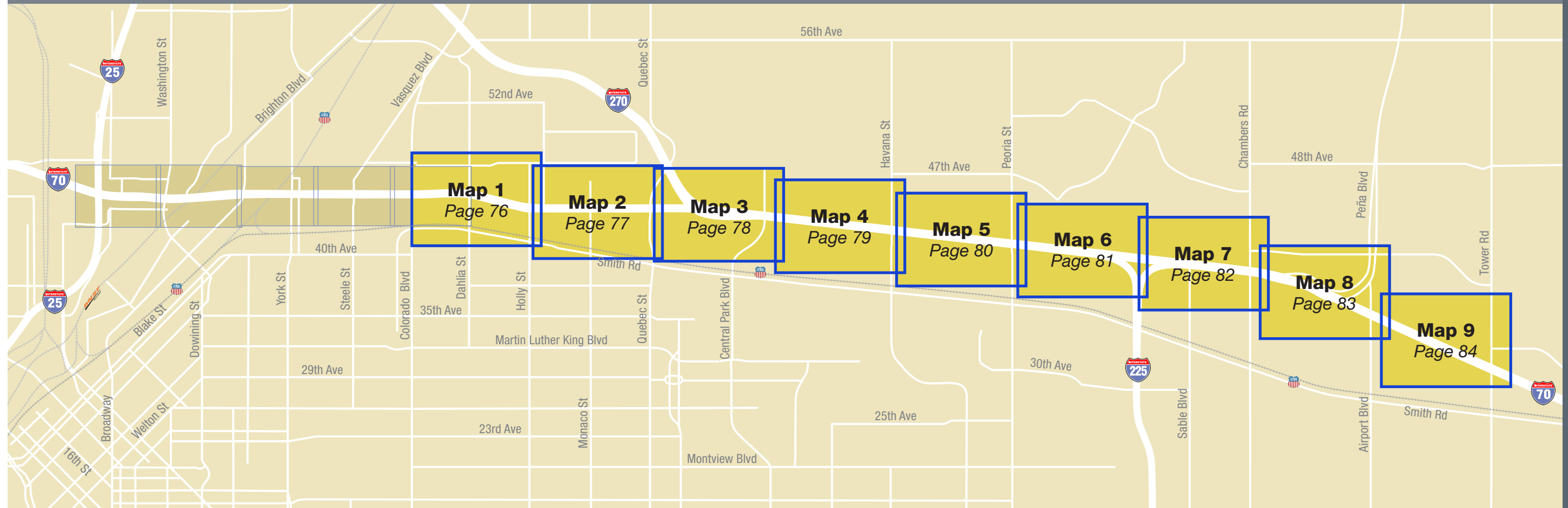
Proposed highway and ramps	Proposed sidewalk and median	General-purpose lanes	Construction limits
Proposed street configuration	Existing pavement	Parcel boundaries	

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Build Alternatives • Colorado Boulevard to Tower Road

Managed Lanes Option



Managed Lanes Option

- Adds two through-lanes to the existing I-70 highway in each direction
- Employs an operational strategy to manage the traffic for the added capacity in the corridor
- Provides access at Holly Street to and from I-70; the existing Dahlia Street and Monaco Street slip ramp connections are located closer to Holly Street to reduce vehicle conflicts
- Provides direct connections to the managed lanes at I-270, I-225, and Peña Boulevard

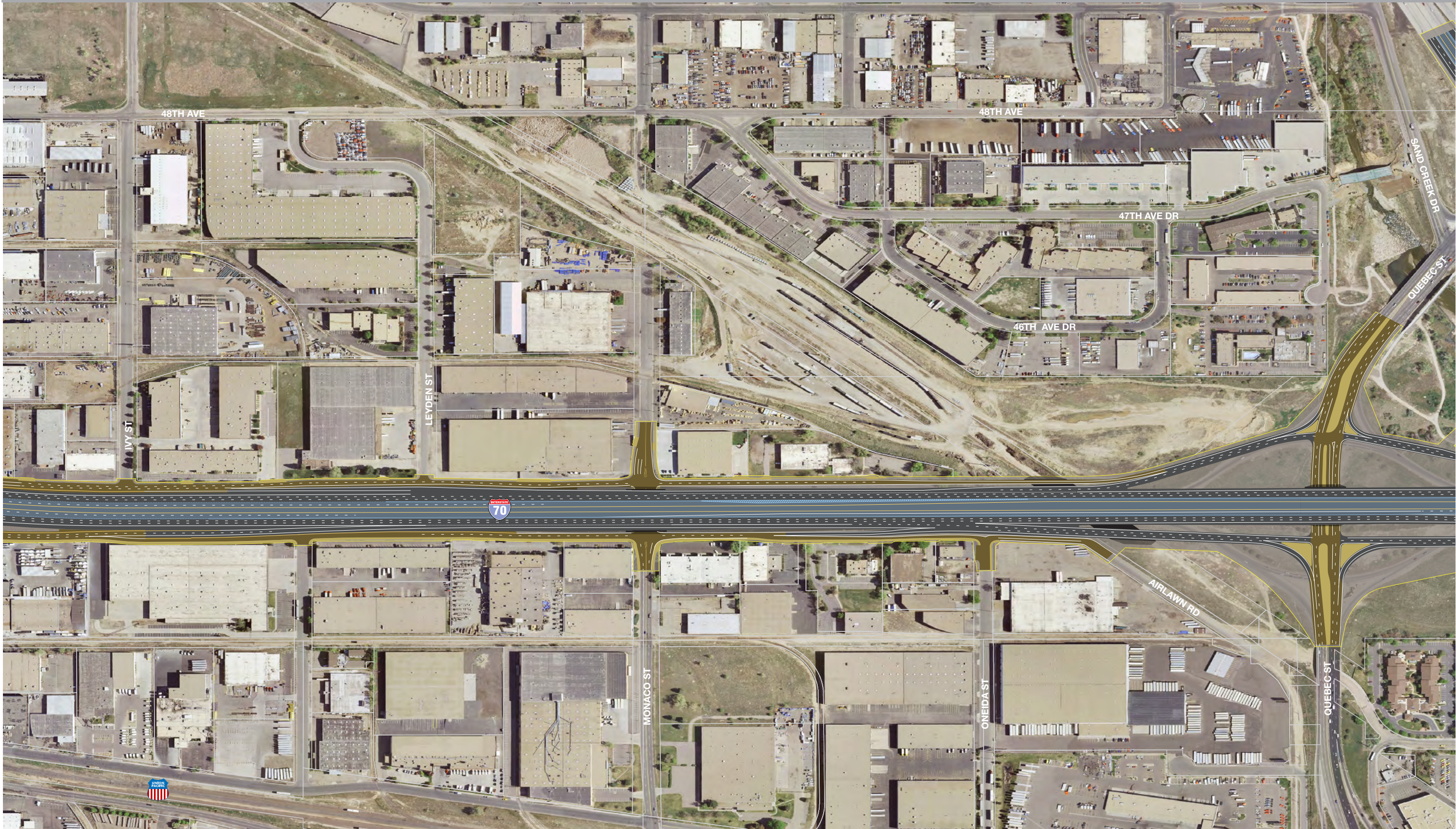


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|-------------------------------|------------------------------|-----------------------|----------------|---------------------|
| Proposed highway and ramps | Proposed sidewalk and median | General-purpose lanes | Striped buffer | Construction limits |
| Proposed street configuration | Existing Pavement | Managed lanes | Drainage | Parcel boundaries |

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MAP 3 Colorado Boulevard to Tower Road • Managed Lanes Option



- Legend
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MAP 5 Colorado Boulevard to Tower Road • Managed Lanes Option



- Legend
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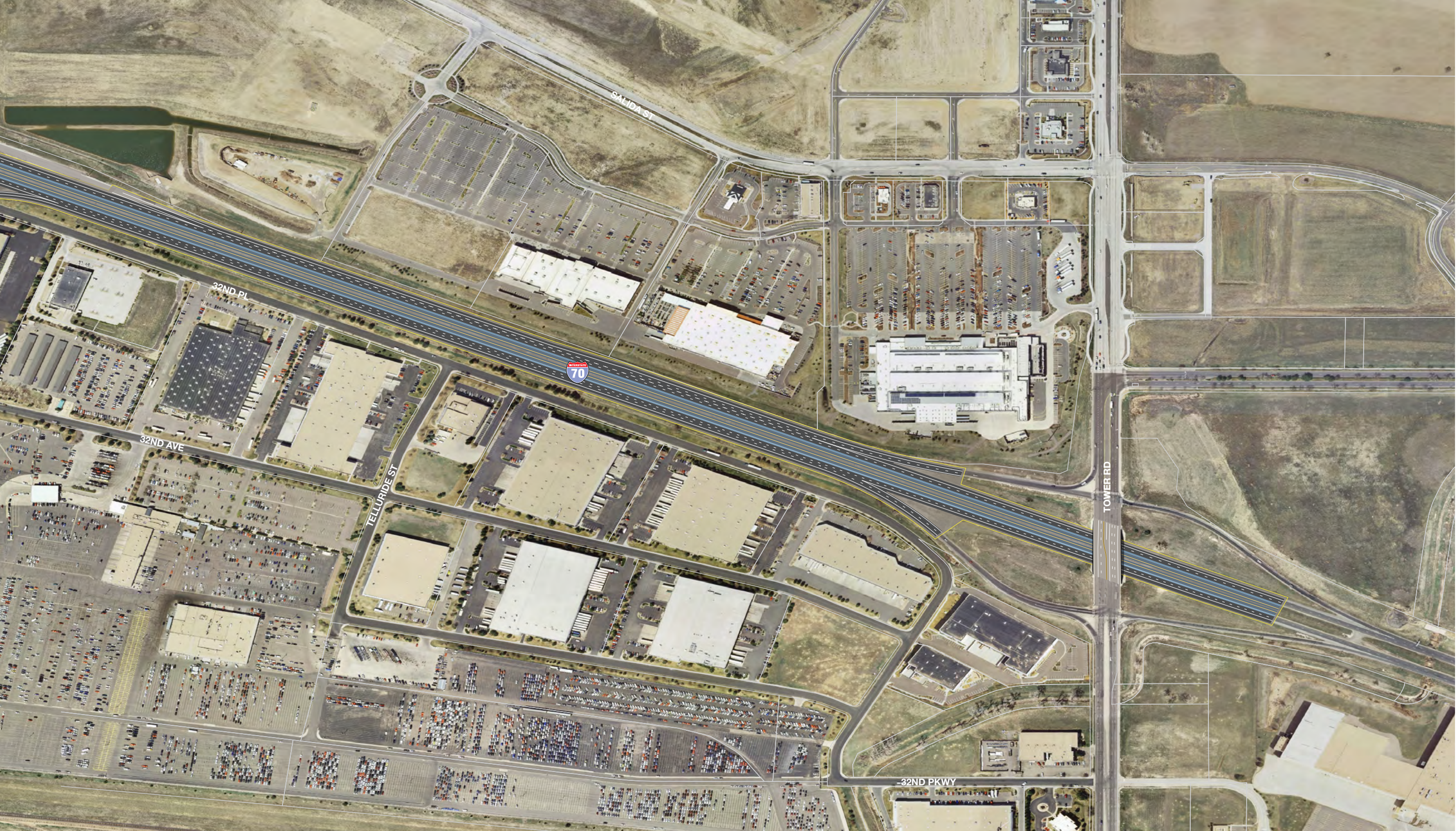


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Drainage

All the alternatives include drainage improvements on the north side of I-70 to capture and convey the onsite water runoff. The Partial Cover Lowered Alternative also includes an offsite drainage system south of I-70 to capture surface water before it enters the lowered section of the highway.

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↑ Offsite drainage for the Partial Cover Lowered Alternative south of I-70

Drainage system along the south side of I-70, south of the coliseum and through Globeville Landing Park discharging the offsite flows to the South Platte River

← Onsite drainage system north of I-70

Drainage system for the No-Action Alternative and the Build Alternatives discharging into the South Platte River north of I-70 near Riverside Cemetery

Legend

— Drainage

— Construction limits

This exhibit is for informational purposes only and it may contain preliminary conclusions that may not necessarily be reflected in the final decision



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Phase 1 Project

There is insufficient funding available to construct all the improvements for the Preferred Alternative (Partial Cover Lowered Alternative, Managed Lanes Option); therefore, a Phase 1 Project has been identified that will include adding one tolled express lane in each direction between Brighton Boulevard and Chambers Road.

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Phase 1 Project • Brighton Boulevard to Chambers Road



Phase 1 incorporates portions of the identified Preferred Alternative, the Partial Cover Lowered Alternative with Managed Lanes Option

- Restriping from I-25 to Brighton Boulevard
- Complete reconstruction from Brighton Boulevard to I-270 with pavement width for the addition of two lanes in each direction
- Only one lane will be open for use until traffic demand is met to open the second lane
- Widening from I-270 to Chambers Road to accommodate one additional lane in each direction



Legend

Proposed highway and ramps

Proposed street configuration

Proposed sidewalk and median

Existing Pavement

General-purpose lanes

Managed lanes

Striped buffer

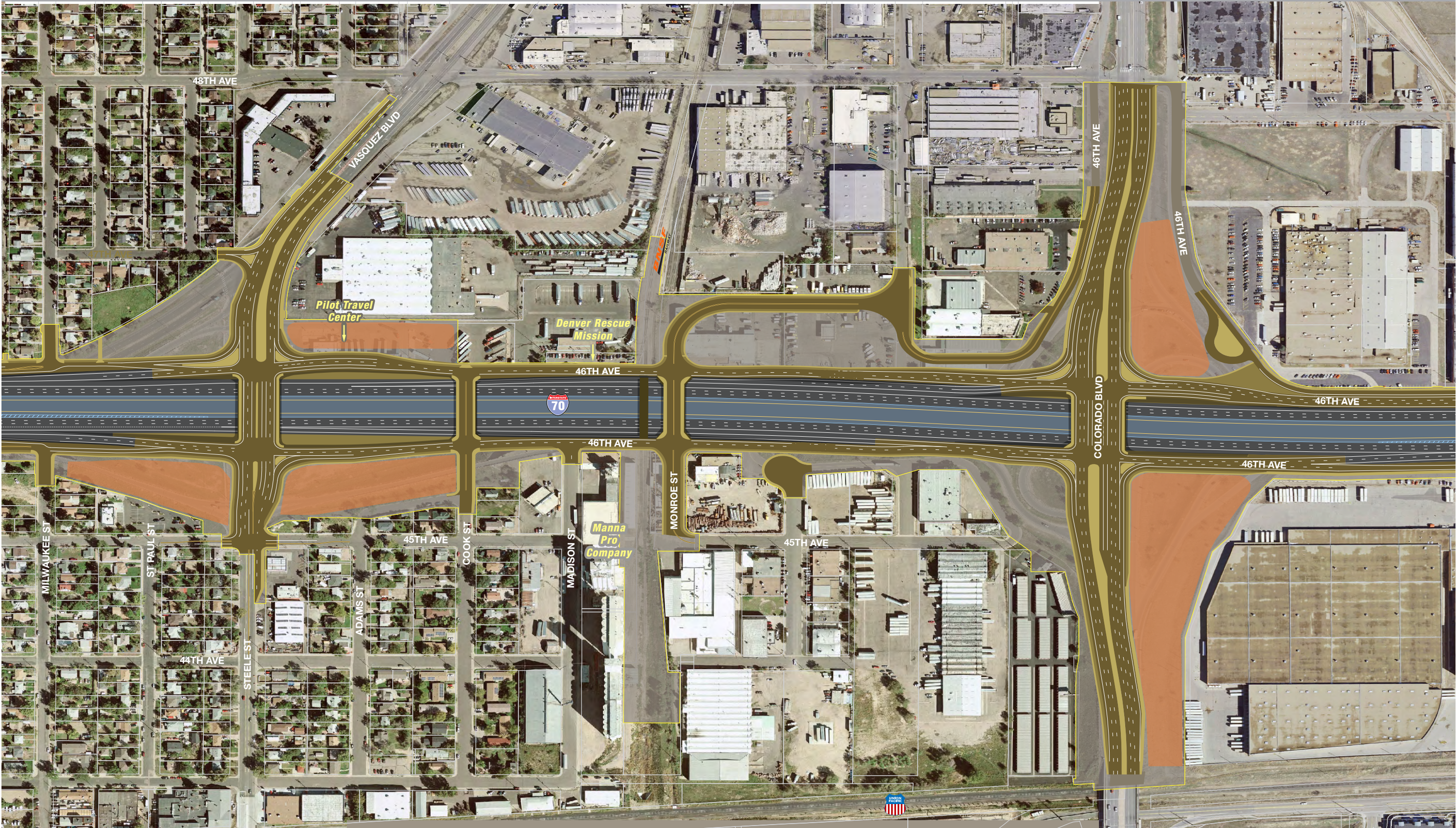
Drainage

Construction limits

Parcel boundaries

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Page 92

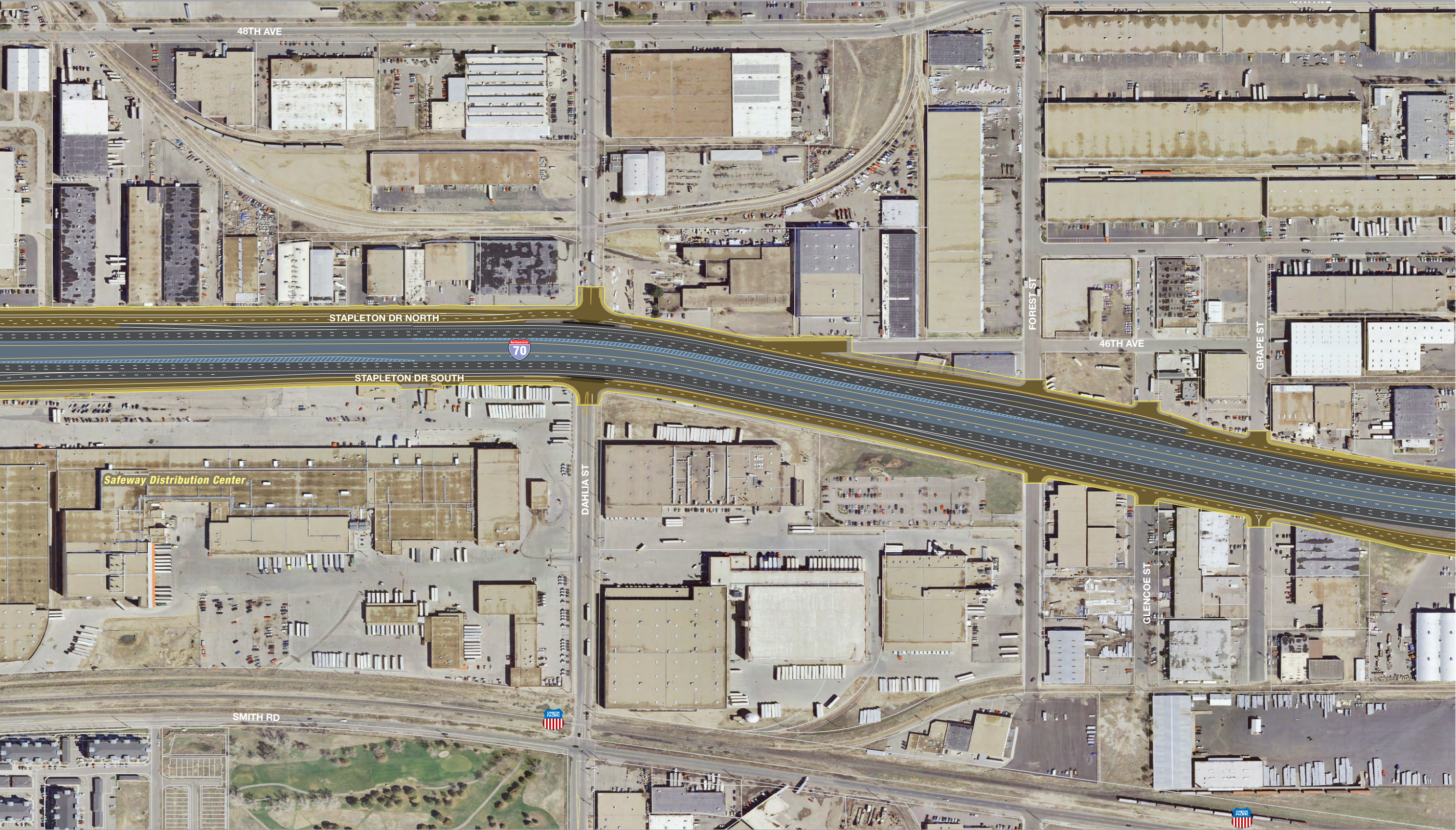


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MAP 5 Phase 1 Project • Brighton Boulevard to Chambers Road



Legend

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Proposed street configuration	Existing Pavement	Managed lanes	Drainage	Parcel boundaries

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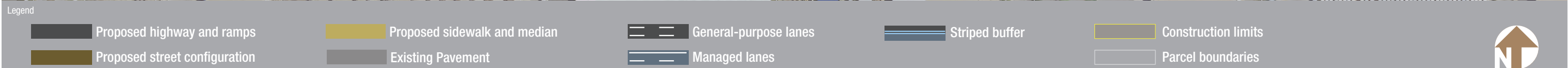


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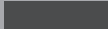




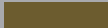
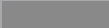

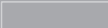
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